Write a program in C to check whether a given number is prime or not

#include<stdio.h>

int main() {

  int num, i, flag=0;

  printf("Enter a number: ");

  scanf("%d", &num);

  for(i=2; i<=num/2; i++) {

    if(num%i == 0) {

      flag = 1;

      break;

    }

  }

  if(num == 1) {

    printf("%d is neither prime nor composite", num);

  }

  else {

    if(flag == 0) {

      printf("%d is a prime number", num);

    }

    else {

      printf("%d is not a prime number", num);

    }

  }

  return 0;

}